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1. General instructions

Read the instructions in this manual carefully as they contain important information regarding the correct, effective and safe installation, use and servicing of the machine. Service personnel should have access to all documentation for the machine.

Keep this manual in a safe place so that it can and should be used by other operators of the machine.

- The machine is intended to be used for washing dishware that is found in the general catering and restaurant trade. Other uses are NOT recommended!
- The machine can be equipped with a number of different options. Certain options may be standard in a number of countries. Check what your machine is equipped with.
- The machine’s display indicates what the machine is doing. The machine’s various temperatures and any alarms are also shown.
- The capacity requirements of the machine can be found in the TECHNICAL DATA chapter.
- The electronics in the machine are RoHS compatible.

Before the machine is started up and used, the following points should be observed:

- The SAFETY INSTRUCTIONS chapter must be studied carefully before commissioning the machine.
- Installation of the machine must be performed in accordance with the requirements and instructions indicated in the INSTALLATION INSTRUCTIONS and TECHNICAL SPECIFICATIONS chapters.
- Any personnel who may at some point use the machine must be trained in its operation, use and care.
- The machine should not be used by anyone suffering from a physical or mental illness.
- A close eye should be kept on any children in the vicinity of the machine to ensure they do not tamper with it.
- All cover plates must be installed during use.

The machine and equipment requires an annual service. Contact one of our authorised or trained service companies for such a service.
1.1 Symbols used

This symbol warns of situations where a safety risk may arise. The instructions given should be followed in order to prevent injury.

This symbol on a machine part warns of electrical equipment. The machine must be entirely non-live during servicing, turn off the power at the power switch and if required, the switch should be locked to prevent unintentional operation. The component may only be removed by a qualified electrician.

This symbol warns that the machine’s electronics are sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics at all times.

This symbol explains the right way to perform a task in order to prevent poor results and/or damage to the dishwasher.

This symbol identifies recommendations and hints to help you get the best results when washing, to increase the machine’s lifespan and reduce the risk of emergency shutdown.

This symbol explains the importance of careful and regular cleaning of the machine to meet hygiene requirements.

This symbol warns of the importance of reading the manual before using the machine!

This symbol warns that local regulations must be followed for recycling of packaging etc. as well as the recycling of the machine.

This symbol shows where any earth cable for potential equalisation can be connected. The earth bolt is placed on the machine’s stand.
1.2 Machine rating

The machine has two rating plates, one of which is placed at the bottom of one side of the machine and the other in the electrical cabinet. The technical information on the plates is also included on the machine's wiring diagram. The various rating fields show:

1. Machine type
2. Machine serial number
3. Year of manufacture
4. Enclosure protection class
5. Voltage
6. Number of phases with or without neutral
7. Frequency
8. Main fuse
9. Motor output
10. Electrical heating output
11. Max. output

1.3 Checking that the machine and manual correspond

Check that the type description on the rating plate corresponds with the type description on manual cover page. If manuals are missing, it is possible to order new ones from the manufacturer or the local distributor. When ordering new manuals, it is important to quote the machine serial number found on the rating plate.
1.4 EU Declaration of Conformity

A so-called EU Declaration of Conformity is provided on delivery of the machine.

1. Contact details of the manufacturer (Wexiödisk AB, Mårdvägen 4, SE-35245 Växjö, SWEDEN, Tel.: +46 470 771200, Fax: +46 470 23752, E-mail: wexiodisk@wexiodisk.com).
2. Representatives of Wexiödisk AB.
3. Person responsible for the product’s documentation.
4. Year of manufacture of the product.
5. The EU directives with applicable provisions to which all the dishwashers, special machines and accessories comply.
6. Harmonised standards for the directives specified, and which the dishwashers, special machines and accessories meet, wherever relevant.
7. Model designation and serial number of the dishwashers, special machines and accessories the document applies to.
8. Place and date with signature and name (in block letters) of the person responsible for ensuring compliance with legislation and regulations.
2. Safety instructions

Read the chapter GENERAL INSTRUCTIONS carefully before starting work.

2.1 General information

The machine is CE marked, which means that it complies with the requirements of the EU Machinery Directive with regard to product safety. Product safety means that the design of the machine will prevent personal injury or damage to property. The CE mark is only valid for an unmodified machine. Any damage to the machine arising from failure to follow the instructions will invalidate the supplier’s warranty and product liability.

Installation, repairs and servicing must be performed by an authorised engineer in accordance with local and national rules in effect for such work with water and drainage systems, electricity, ventilation and steam. We recommend that the work is performed by the manufacturer or one of the manufacturer’s authorised service companies.

To further improve safety during installation, operation and servicing, the operator and the personnel responsible for installing and servicing the machine should read the safety instructions carefully.

The machine’s electronics are sensitive to electrostatic discharge (ESD), which is why a static electricity wristband must be used when handling the electronics at all times.

Before the machine enters service, ensure that the personnel are given the necessary training in handling and looking after the machine.

In order to avoid dangerous situations, the following must be followed:

- Switch off the machine immediately in the event of failure or malfunction.
- Make sure the machine is non-live before removing the cover plate. Turn off the power using the power switch. If required, the switch must be locked to prevent unintentional operation.
- Shut off the tap for incoming water and drain the machine’s tank(s) before starting work. Let the machine cool down as pipes for water, washing pumps, booster heaters and valves become very hot when the machine is in operation.
Safety instructions

- The machine and equipment requires an annual service. The machine should be serviced by a person authorised or trained to do so by us. Use original spare parts.
- Warranty repairs must be performed by an authorised company. Contact an authorised service company to draw up a programme of preventive care and maintenance. For authorised service companies, please see www.wexiodisk.com or contact Wexiödisk AB.
- The regular checks described in the manual must be carried out in accordance with the instructions.

2.2 Transport

Handle the machine with care during unloading and transport; there is a risk of it tipping over. Never lift or move the machine without using the wooden packaging to support the stand.

2.3 Installation

- The machine is designed for quick electrical installation.
- The machine must be connected to a lockable main switch.
- Make sure that the mains voltage is the same as that indicated on the machine's rating plate.

For increased safety, it is recommended to equip the installation with a ground fault circuit interrupter.

2.4 Detergent and drying agent

Be aware of the risks involved in handling detergents and drying agents. Protective gloves and safety glasses should be used when handling, and an eyebath should be within easy access. Read the warning text on the detergent and drying agent containers as well as the detergent supplier’s instructions.
2.5 Operation

Be very careful around the machine when it is in operation.

2.5.1 High temperatures

- The temperature of the washing and rinsing water is 60°C and 85°C. Do not open the machine until the rinsing phase has finished. The steam that comes out of the machine after the wash has been completed is hot.
- Avoid touching hot pipes and booster heaters. The machine’s outer jacket can also become hot during operation.

2.5.2 Risk of crushing

The machine, and any equipment, has moving parts before, during and after washing. Be careful therefore to avoid crushing injuries.

2.5.3 Risk of slipping

The floor should be kept clean and dry to eliminate any risk of slipping. Mop up any water and leftover food that has been spilt. Pay particular attention to granulate that has been spilt on the floor.

2.5.4 Sounds

The machine is not silent during operation, see TECHNICAL SPECIFICATIONS. Hearing protection may therefore need to be used.

2.6 Cleaning the machine

The water in the tank has a temperature of approximately 60°C and contains detergent. Be careful when draining and cleaning the wash tank. Wear protective gloves and safety glasses and have an eyewash within easy access.
3. Installation instructions

Read the chapters GENERAL INSTRUCTIONS and SAFETY INSTRUCTIONS carefully before starting work.

3.1 General information

Read these instructions carefully, as they contain important information regarding the correct installation method.

- The instructions should be used together with the machine’s wiring diagram and flow diagram for water and steam.
- The machine can be equipped with a number of different options. Certain options may be standard in a number of countries. Check what your machine is equipped with.
- If holes need to be drilled in the machine, the holes must be fitted with an edge strip or similar protection.

3.2 Requirements for the installation site

3.2.1 Lighting

In order to ensure the best possible working conditions during installation, operation, servicing and maintenance, make sure that the machine is installed in a well-lit room.

3.2.2 Ventilation

The machine produces heat and steam when in operation. In order to ensure the best possible working conditions, a certain air renewal rate is required in the dishwashing room. The ventilation requirements for the dishwashing room are to be dimensioned on the basis of the applicable standards.

3.2.3 Power supply

Power supply connections are made by qualified personnel in a way that complies with local and national regulations. The machine’s capacity requirements are stipulated in TECHNICAL SPECIFICATIONS.
3.2.4 Water

Water connections are made by qualified personnel in a way that complies with local and national regulations. The machine’s capacity requirements are stipulated in TECHNICAL SPECIFICATIONS.

3.2.5 Drain/waste pipe

There must be a waste pipe with an effective trap for the machine’s waste water and for water used for rinse cleaning. The machine’s capacity requirements for drainage are stipulated in TECHNICAL SPECIFICATIONS.

3.2.6 Space for servicing

A 1-metre area should be left clear in front of the machine for servicing purposes. Depending on if the machine has different accessories, there may also be such a requirement at the infeed and outfeed ends as well as above the machine.
3.3 Transport and storage

Always transport the machine in an upright position.

Take care during transport, as there is a risk of tipping. N.B.! The machine must not be transported without a pallet or other support. Some form of support beam must always be used along the sides of the machine during transport. Otherwise the machine may become damaged. When transporting the machine without a normal wooden pallet, always check that none of the components underneath the machine can be damaged.

If the machine is not being installed immediately, it must be stored in a frost-free area where the air is dry.

3.3.1 Unpacking

Check against the delivery note that all the units have been delivered.

Remove the packing material. Inspect the machine for any transport damage.

3.3.2 Recycling

Packaging must be sent for destruction or recycling in accordance with local regulations.

The machine is manufactured from stainless steel plate, among other things, and also contains electronic components. Recycling of the appliance when its economic lifetime has been reached must be carried out in accordance with current rules and regulations.
3.4 Installation

3.4.1 Preparing for the installation

The height of the machine during transport is 2300 mm. Check that there is sufficient room for the machine at the installation location.

- Check that correct connections are available for water, electricity, drainage and possibly steam at the installation location. See TECHNICAL SPECIFICATIONS.
- Check that the overheating protection on booster heaters and tank elements is set to zero.

3.4.2 Positioning the machine

Check the following points before the machine is placed in position:

- Check that the fuse for the machine at the site is off, blocked and that outgoing electrical circuits from the machine are non-live.
- Remove the protective plastic on the sides which are to be stood against a wall.
- The distance between the wall and machine should be at least 20 mm.
- Loosen the detergent hose on the back of the machine before putting the machine against the wall. Hang the hose up in such a way that it is easily accessible for the detergent supplier.
- If the machine is to be corner-loaded, it must be positioned with the control panel furthest away from the wall.

Put the machine in position and check that it is horizontal using a spirit level. Adjust the height using the machine’s legs.

- Lateral tilt: Place a spirit level on the body of the machine at the infeed and outfeed.
- The machine’s longitudinal direction: Place the spirit level across the body of the machine.

Once the machine has been filled with water, do another check to make sure the machine is standing level.
3.5 Connections

x) The condensing fan runs for 10 seconds at the start of the wash cycle and for 50 seconds from 10 seconds after the final rinse has started.

1. Cold water connection
2. Hot water connection
3. Electrical connection
4. Steam connection (option)
5. Condensing water connection (option)
6. Drain/waste pipe connection
7. Connection for detergent hose.
8. Machine ventilation requirements
3.5.1 Power supply

Information about electrical connections is available on the machine’s wiring diagram which is provided on delivery. Store the diagrams in the plastic pocket, located in the electrical cabinet, even after installation.

- The machine is designed for quick electrical installation.
- The machine must be connected to a lockable main switch. This should be placed on a wall, well-protected from water and from the steam which escapes when the machine is opened.
- The machine is equipped with a phase sequence detector. The machine will not start if the phase sequence is incorrect. If the phase sequence is incorrect, the display will show POWER SUPPLY FAILURE CHECK EMERGENCY STOP

It is important that the electrical connection is checked so that it is certain that the live and neutral wires are correctly connected and not swapped over. It is also important to check at the same time that the earthing system connection is correct and sufficient so that the machine’s electrical and personal security system is not compromised.

The connection in the electrical cabinet is at (3). After completing the installation, switch on the main switch and all circuit breakers.

3.5.2 Water

A shut-off cock must be installed on the incoming lines.

It is important that the water supply has sufficient pressure to ensure the correct flow of water to the machine. The required pressure can be found in the TECHNICAL SPECIFICATIONS. If the water pressure is too low, a booster pump must be fitted.

Connect the cold and hot water pipes according to the labels by the connection points (1, 2). If the machine is connected with a hose, this should be steel braided and have an internal diameter of at least 12 mm.

The hot water connection is fitted with a filter. The cold water connection is fitted with a filter, non-return valve and vacuum valve. The connections have an internal thread.

In cases where the machine is fitted with a “Break Tank”, the connection is fitted with a filter and non-return valve.
3.5.3 Ventilation

The machine has a condensing battery connected to an exhaust fan to reduce the amount of steam released. Extractor fans for extracting steam can be installed above the infeed and outfeed openings, as well as above the area of the machine where steam is emitted from the condensing fan.

If a hood is fitted over the machine, it must cover both the infeed and the outfeed. The front of the hood must be positioned at least 500 mm in front of the machine to allow access for service and repairs.

The machine’s heat load for the room is stipulated in TECHNICAL SPECIFICATIONS.

3.5.4 Steam (optional)

A shut-off cock must be installed on the incoming pipe (4). The required steam pressure can be found in the TECHNICAL SPECIFICATIONS.

3.5.5 Condensation water (option)

A condensation connection (5) is only provided on steam-heated machines. The pipe is connected to the system’s steam boiler.

3.5.6 Drain/waste pipe

The waste water system connected to (6) should use 50 mm metal pipes that tolerate mechanical collision. The waste pipe is routed to a floor drain with the pipe exit kept clear of the water level.

Ensure that the drain connection is kept in place by using e.g. cable ties in the designated areas.

3.5.7 Detergent and drying agent

The machine comes ready for fitting detergent and drying agent equipment, but this is not included with the machine.

- If liquid detergent is used together with Wexiödisk’s detergent pump, the detergent must be placed under the machine’s tank level.
- If equipment for a different type of detergent is used, it should preferably be put on the wall behind the machine to avoid holes being drilled unnecessarily in the machine.

Information regarding the choice of detergent and drying agent and granulate is described in the OPERATING INSTRUCTIONS chapter.
The process of setting the detergent and drying agent dispenser is described in the ADJUSTMENT INSTRUCTIONS.

For information about electrical connections, see the machine’s electrical diagram.

Connecting detergent and drying agent

- **A** = Water outlet for detergent
- **B** = Drying agent connection
- **C** = Terminal box

Connection of the equipment

- Remove the cover plate beneath the electrical cabinet. The panel is fixed with screws on the bottom edge under the stand.
- The terminal block for connecting the dosing equipment is in the junction box (C) inside the cover plate. The FU/DM circuit breaker for the equipment is in the electrical cabinet. (For connection information, see the wiring diagram).
- A hole for fitting a measurement cell can be found in the tank. Remove the sealing plug and insert the measurement cell into the existing hole.

Dosage

- The water outlet (A) for the detergent dosage is placed on the incoming hot water pipe.
- The hose on the back of the machine is connected to a detergent container. The hose supplied with the machine is connected to the wash tank.
- The connection for drying agent (B) is located next to the booster heaters.
3.6 Installing auxiliary equipment

Once the machine is in place and adjusted horizontally and vertically, the peripheral equipment can be fitted.

- The loading bench (A) and extension bench (B) can be put in place. The height of the extension bench (B) can be adjusted where it connects to the machine. When the water and electricity supplies, etc. have been connected and it is possible to open the doors, check that the cassette (C) can easily be slid into the machine.
- If necessary, fix two of the legs on the loading bench to the floor. Drill through the rubber plate.
- Adjust the trolley (D) vertically and check that the cassette can move easily over the trolley towards the loading bench.
- If necessary, the machine’s outfeed opening can be adjusted so that it is slightly higher than the infeed opening.
- Guide the plastic wheel on the side of the trolley into the guide rail (E) on the bracket under the outfeed opening.
- Adjust the height of the roller (F) between the trolley and the machine.

Auxiliary equipment

- A=Bench
- B=Extension bench
- C=Cassette
- D=Trolley
- E=Guide rail
- F=Roller
3.7 Trial operation

Prepare the machine for trial operation by following the INSTRUCTIONS FOR USE. The instructions describe the measures that must be taken to prepare the machine for operation.

3.7.1 Start-up schedule

This should be completed and signed by the customer on start-up.

**Machine type:**

**Machine serial number:**

**Installation date:**

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<tr>
<td>Name (in capitals):</td>
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</table>

Read the installation and user manuals carefully. Then check the following points:
Installation instructions

1. Check the following before starting and filling the machine with water:
   • Water and drain connections.
   • That the machine is evenly balanced.
   • That the cassette can easily be moved in and out of the machine.
   • The equipment for detergent and drying agent is correctly connected
   • The filter, filter tray, cover plates and level pipe should be in position.
   • The correct quantity of granulate should be in the machine.
   • That the overheating protection device is reset.
   • That the FU21 and FU42 mini-switches are in the off position.
   • That QM17 is switched on

2. Filling the dishwasher with water:
   • Open the tap(s) to the dishwasher’s water connection and fill the break tank with water (possible option). Air the booster pump.
   • Start the dishwasher.
   • Check the direction of rotation of the pumps
     N.B.! If the pump is rotating in the wrong direction, the phase must be inverted on the incoming electrical cable connection.
   • Fill the machine with water.
   • Turn on the mini-switches FU21 and FU42 when the booster heater and tank has filled with water.

3. Check the reference value settings (All the reference values have been set to the recommended values on delivery):
   • Check that all reference values are correctly adjusted.
   • Check that the water temperatures (tank, booster heater, etc.) have been reached in accordance with the reference values.

4. Run a number of washes complete with loads and check:
   • There are no water leaks.
   • The switch for the doors functions.
   • The anti-crushing mechanism functions.
   • The water temperatures are maintained.
   • The washed items are clean.
   • The washed items are dried.
   • The water flow to the machine is adequate (See the Technical Specifications in the Installation and user manual). Inform the customer if the water flow and the water pressure for the incoming water are too low.
   • The motor cut-off switch setting against the wiring diagram.
5. Final check:

Empty the machine and turn off the power using the main switch before the final check is performed.

• Re-tighten all connections on contactors and circuit breakers.
• Check that all circuit breakers are set to the ON position.
• Set up the quick guide(s) supplied.

6. Train and inform personnel concerning:

• Washing
• Care (daily, weekly and other frequencies)
• The recommendations given concerning annual servicing
• The fact that Wexiödisk’s original granulate must be used (warranty conditions).

3.8 Documentation

For correct use and servicing, it is essential that the documentation accompanying the machine is made available to personnel who will be using the machine. The installation and user manual, which describes handling and care among other things, should be stored near the machine.
4. Operating instructions

Read the chapters GENERAL INSTRUCTIONS and SAFETY INSTRUCTIONS carefully before starting work.

This chapter describes what must be done with the machine:

- Before washing
- How washing should be performed
- After completed washing
- In the event of error messages and troubleshooting

The use of the machine is dependent on how the machine is equipped.

If the machine will not be used for a longer period, the power to the machine should be turned off using the power switch, the water supply turned off and machine should be left open.
4.1 Before washing

4.1.1 Machine design

1. Display
2. LEDs which indicate the choice of programme
3. LED which indicates that the diagnostics function is activated
4. LED for the alarm function (flashes in the case of an alarm that can be reset)
5. LED which lights when the power is switched on.
6. Control button to control the opening/closing of the doors and the start of the washing
7. On/Off
8. Button for resetting alarm
9. Push button for switching between diagnostic messages.
10. Button for diagnostic messages
11. Buttons for selecting the programme
12. Wash arms
13. Cover plates
14. Filters
15. Granulate wash tank
16. Wash tank
17. Rubber sleeve
18. Level pipe
19. Roller table
20. Cassette for dishware
21. Wash nozzle
22. Rinse pipe for final rinse
23. Rinse nozzle
24. Buttons for raising/lowering the machine (Option)

In the following chapter, figures are given in brackets to clarify what needs to be done. These numbers refer to image and list above.

### 4.1.2 Preparations before filling

The dishware must not be soaked if granulate is to be used during washing.

To avoid the wash nozzles getting blocked, it is important to remove all large pieces of food from the items to be washed before putting them in the machine.

Check:

- That the machine and removable parts have been cleaned. Clean these if this has not been done.
- That no dirt is in the wash arms’ (12) or in the rinse pipes’ (23) nozzles.
- That removable parts are correctly in place
- That the stopcocks on the incoming water supply are open.
- That there is granulate in the granulate wash tank (15).
- That the wash tank (16) is completely free from granulate. Granulate in the wash tank can cause a water leak round the rubber seal on the level pipe (17).
- The amount of detergent and drying agent.

Fit:

- The level pipe (18). The rubber seal of the level pipe (17) must be sealed against the bottom plate.
- the cover plates (13)
- filters (14)
Detergent and drying agent

Only detergent and drying agent intended for industrial machines may be used. Contact your detergent supplier regarding the choice of a suitable detergent.

- If using liquid detergent and drying agent, the same make and type should be used. Switching between different detergent chemicals poses a risk of blockages in hoses and pumps. When switching between different detergents and drying agents, the dosing system, including pumps, must be thoroughly rinsed using tap water.
- Hand dishwashing detergent must not be used in the machine or for soaking dishware because this causes foam build up, gives poor washing results and may damage the machine.
- Steel wool must not be used for pre-treating the dishware.
- If the machine is equipped with a condensing unit, dishware should be removed from the machine as soon as the condensation cycle is complete so that re-condensation does not occur.
- Different makes of granules differ in both size and weight. The machine is designed to use Wexiödisk original granulate. The amount to be added to the machine is indicated under “TECHNICAL SPECIFICATIONS”.

4.1.3 Filling the machine

N.B.! There must not be a cassette in the machine while it is filling.

- Press button (7) to switch on the power supply.
- Press one of the programme buttons P1, P2 or P3 (11).
- Press button (6) to close the doors (there is an equivalent button on the other side of the machine). The machine will start to fill with water.
- Messages indicating the sequence of events appear on the display (1).

N.B.! The time needed to heat the water to the right wash temperature depends on the temperature of the incoming water.

4.1.4 Positioning the items in the cassette

Put the cassette on the loading bench. Use the bench as a sorting area. Scrape away all loose food remnants. We recommend using our separating spatula WD209.7261 for this. If you rinse the items, you must only use water to do so.

Put the items in the cassette (A). The cassette is rotated on the loading bench (B) after it has been filled.
All the items must be correctly and firmly positioned. The dirty side of the items must face outwards. Check that nothing is sticking out and preventing the cassette from rotating in the machine.

Open the doors using button (6). Slide the cassette into the machine. Make sure that the lock on the roller table (19) locks the cassette firmly in place.

The lock (A) must firmly lock the cassette on the roller table (B).
Positioning gastronorm canteens

The canteens must be pushed down into the guides in the cassette. If smaller canteens are being washed, the dividers (B) must be fitted and locked into the frame.

Fixed guides (A) for large canteens. Dividers (B) for smaller canteens.

Canteens which are 200 mm deep are placed in the middle, opposite one another.
Example of the position of smaller canteens.

Alternative position for a 1/1 canteen

Using accessories

A number of accessories are available for washing different types of items. It is important to use the correct accessories in order to obtain the best washing results. Items which are incorrectly positioned can come loose and damage the machine.

Below are a number of examples of using the machine's accessories. The support partition for washing lids etc. is placed in the bottom of the cassette. Other accessories must be slid into the fixed guides in the cassette. All parts must face in the correct direction. No parts must stick out from the cassette.
Loading bench (Option for front-feed machines)

Loading bench with connection line (400 mm) used for emptying and stacking dirty items.

![Diagram of loading bench](image)

**Loading bench for WD209.7370**

Trolley

The trolley is used for moving clean and/or dirty items.

![Diagram of trolley](image)

**Trolley for WD209.7362**
Combination cassette

Cassette with supporting sides for all types of washing. The items are positioned in the cassette so that they do not move during the wash cycle.

Support partition, side holder

The support partition, which is placed in the bottom of the cassette, is used for washing lids, chopping boards with a length of 600 mm, baking trays 600 x 400/450 x 20/40 mm in size and other shallow items with a maximum size of 600 x 600 mm.

The items are placed between the supporting sides (A). The sides are removable and the distance between them can be adjusted to fit the items being washed. To remove the sides, push them together from the side and lift them up.

The side holder (B) is used to ensure that items do not move sideways. The side holder is positioned in the fixed guides on the cassette.

The support partition (A) can be used together with the side holder (B) for washing large pots and mixing bowls. Side holders (B) can be placed on all sides to prevent items from being thrown out during the washing process. Use one of the supports (A) and position it so that the items to be washed are clamped in place between the support (A) and the side holder (B).
A=Support partition WD209.7341
B=Side holder WD209.7354
Long guides

These double the machine’s capacity when washing 1/2 canteens.

Long guides WD209.7342

Short guides

These are used to wash canteens smaller than 1/1 in size.

Long guides WD209.7343
Granulate and separating spatula

The granulate is used for the wash programmes with granulate P1, P2 and P3. Only use granulate which is approved by the machine's manufacturer. The spatula is used to scrape off loose dirt.

A=Granulate WD209.7260  
B=Separating spatula WD209.7261

Extension bench (option)

If the loading bench needs to be longer, an extension bench can be connected to it.

Extension bench WD209.7371
Connection line (option)

If the loading bench needs to be moved further away from the machine, an additional connection line can be used. It comes in a variety of different lengths.

Connection line WD209.7375

Rinsing unit (option)

The rinsing unit is fitted to the side of the loading bench and is used for rinsing items before they are washed. The items must not be soaked but can be rinsed where necessary using only water just before they are washed. The rinsing unit has an adjustable rinsing handle, a 10 m hose and can also be used for cleaning the machine and the dishwashing room.

Rinsing unit WD209.7390
Washing china, cassette for 500 x 500 wash basket (option)

This cassette, together with the grid WD209.7365, can be used effectively with wash baskets which are divided into compartments.

Cassette for 500 x 500 wash basket WD209.7364

Grid for 500 x 500 wash basket (option)

This grid is used with standard wash baskets, together with the cassette WD209.7364.

Grid for 500 x 500 wash basket WD209.7365
All-round holder (option)

The all-round holder is used for washing ABC canteens and pots and pans. Pots and pans can be hung from the top part of the holder.

Flexible insert (option)

Bowls, small saucepans, baking tins and other items which are hard to position in other holders can be washed in the flexible insert. The maximum size is 500 x 300 mm. The items are clamped in position between the two sides of the insert which are held together with a lock mechanism (A).
Holder for ABC canteens (option)

The holder is suitable for smaller ABC canteens. The maximum size is 1/2 canteens. The handles of the canteens must be slid over the holder's posts.

Holder for ABC canteens WD209.7356

Canteen holder GN 1/3, 1/6, 1/9 (option)

The holder is suitable for washing 1/3, 1/6 and 1/9 canteens.

Holder for 1/3, 1/6 and 1/9 canteens WD209.7366
Canteen holder GN 2/8 (option)

The holder is suitable for washing 2/8 canteens.

Pan holder (option)

This holder is used for bowls and pans.
Utensil holder (option)

The utensil holder is used for washing utensils, such as ladles and whisks etc. (Maximum height 600 mm).

Cutlery holder (option)

The cutlery holder is used for washing all types of cutlery.

Cutlery holder WD209.7367
Mesh basket (option)

Small utensils can be placed in the mesh basket. They should be put loose in the basket for the best washing results.

Wall-mounted holder - guide rails (option)

The wall-mounted holder provides convenient storage for both short and long guide rails when not in use.
Wall-mounted holder - side holder (option)

The wall mounted holder provides convenient storage for side holders when not in use.

Wall-mounted holder - side holder WD209.7359

Holder - accessories (option)

The holder provides convenient storage for various accessories when not in use.

Holder - accessories WD209.7360
4.2 Washing

In the various stages of the wash cycle, the cassette rotates as follows:

- Washing, approx. 10 rpm
- Rinsing, approx. 13 rpm
- Spinning, approx. 80 revolutions/minute

4.2.1 Selecting a programme

The machine has six wash programmes (P1-P6) which can be selected using the three programme selection buttons (11) P1, P2 and P3. Each programme button can be used to select two programmes. By pressing a programme button repeatedly, you can switch between the two wash programmes and pause mode. LED (2) above the button is lit if the programme has been selected. If the LED is not lit, the machine is in pause mode.

If no wash programme has been selected (LED not lit), the machine is in pause mode and possible programme choices are shown on the display.

The programme buttons correspond to the following wash programmes:

- P1=Wash programmes P1 and P4. (Press P1 twice to access programme P4).
- P2=Wash programmes P2 and P5. (Press P2 twice to access programme P5).
- P3=Wash programmes P3 and P6. (Press P3 twice to access programme P6).

Wash programmes with granulate

The display (1) shows which programme has been selected.

Use a programme with granulate for very dirty items, such as burned saucepans, baking sheets and gratin dishes.

Perforated canteens, perforated containers and plastic containers should NOT be washed with wash programmes where granules are used (P1-P3). Use potwash programmes P4-P6 instead (potwash programmes without granules).

The programme times depend on the water pressure during the final rinse.

- P1=Wash with granulate and spin. Programme time approx. 5 minutes. (Factory setting)
- P2=Wash with granulate and spin. Programme time approx. 8 minutes. (Factory setting)
- P3=Wash with granulate and spin. Programme time approx. 10.3 minutes. (Factory setting)

The programmes can be run with or without a spin cycle. The machine is supplied with the spin cycle enabled. If you need a programme without a spin cycle, you must change the setting in the machine's software.
A programme without a spin cycle should be used if the items being washed are for some reason not suitable for spinning, for example if the items cannot be fixed firmly in the cassette.

Wash programmes without granulate

The display (1) shows which programme has been selected.

These programmes are used for items which cannot be washed using granulate, such as perforated canteens, perforated containers and plastic containers.

The programme times depend on the water pressure during the final rinse.

- P4=Heavily soiled wash without granulate and with spin. Programme time approx. 2.3 minutes. (Factory setting)
- P5=Heavily soiled wash without granulate and with spin. Programme time approx. 3.8 minutes. (Factory setting)
- P6=Heavily soiled wash without granulate and with spin. Programme time approx. 6.8 minutes. (Factory setting)

The programmes can be run with or without a spin cycle. The machine is supplied with the spin cycle enabled. If you need a programme without a spin cycle, you must change the setting in the machine's software.

A programme without a spin cycle should be used if the items being washed are for some reason not suitable for spinning, for example if the items cannot be fixed firmly in the cassette.
4.2.2 Washing

- Close the doors and start the wash programme by pressing button (6).
- While the machine is washing, the display will show the remaining washing time (up until the final rinse).
- After the programme has finished, the doors will open automatically.
- Place the trolley beside the outfeed opening. Guide the plastic wheel on the side of the trolley into the guide rail on the bracket under the outfeed opening.
- Lift the locking handle on the roller table (19) and pull the cassette out onto the trolley. Make sure that the locking arm on the trolley is holding the cassette in place.
- To make it easier to empty the cassette, the table which forms the upper part of the trolley rotates. Lift the lever which releases the table and then turn the table.

Guide the plastic wheel on the trolley into the guide rail (A).
The locking arm (A) must hold the cassette in place. Lift the lever (B) up when you want to turn the table on the trolley.

N.B.! If there is to be a long break between washes, select pause mode P0. The doors remain closed to save energy and to stop the temperature of the water in the wash tank from falling.

Anyone with service authorisation level S2 can select energy saving mode, which closes the doors automatically after a certain time.
Checking the wash result

The wash result should be checked after each wash. Check that:

- No discolouration, spots, misting, food residue or deposits are visible on the washed items.
- No deposits at all are visible on the washed items.
- No granules have become lodged in or on the washed items. Note that perforated canteens, perforated containers and plastic canteens must be washed without granulate.

Suggested measures are provided in the table below:

<table>
<thead>
<tr>
<th>PROBLEMS</th>
<th>CAUSES &amp; MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starch spots</td>
<td>• Scrapping: Important to remove as much food particles as possible before washing. This also means that the water in the machine does not need to be changed as often. Scrape better.</td>
</tr>
<tr>
<td>Misting</td>
<td>• Detergent and drying agent dosage: The dosing affects both detergent and drying results of the dishware. The hardness level of the water affects the consumption of detergent. Contact the detergent supplier.</td>
</tr>
<tr>
<td>Protein residues</td>
<td>• Temperatures: At incorrect temperatures the dishes will not be clean. Contact a service technician if you need to change the set values.</td>
</tr>
<tr>
<td>Detergent residues</td>
<td>• Programme selection: Programme with too short a washing time selected. Choose a programme with a longer washing time.</td>
</tr>
<tr>
<td></td>
<td>• Cleaning the machine: Insufficient cleaning of the machine affects the results of the washing. Ensure better cleaning of the machine.</td>
</tr>
<tr>
<td></td>
<td>• Placing dishes in baskets: Incorrectly placed items can mean that the washing water does not reach the items during washing and rinsing.</td>
</tr>
<tr>
<td></td>
<td>• Soaking: Items with hard dried food. Soak the dishes in water. N.B.: The dishware must not be soaked if granulate is to be used during washing. Do not use hand dishwashing detergent.</td>
</tr>
</tbody>
</table>
Guaranteed final rinse

The temperature of the final rinse water is always correct and the right amount of rinse water is always used.

If the rinse temperature is too low, an alarm is triggered on the control panel. The machine continues washing until the right temperature is reached. However, the alarm can be reset in the meantime by pressing button (8) on the panel. The wash programme continues, but the machine will then rinse at a lower temperature. However, an alarm is displayed.

If the flow during the final rinse is too low, an alarm is displayed on the control panel. The alarm can also be set up to stop the machine. The factory setting is for an alarm only. If you need an alarm which stops the machine, the setting must be changed by a service engineer in the machine's software.

Emergency stop function

If the machine needs to be stopped during operation, press the button (7) to turn off the power.

To restart the machine: Press the On/Off button (7). Then press the control button (6) and the doors will open.
4.2.3 Changing the water

To achieve the best possible washing results, it is important that the water is changed frequently.

N.B.! The water in the wash tank must be changed regularly, otherwise foam will start to form and the washing results will deteriorate. If the filters are clogged with foam or if foam comes out of the waste pipe, the water must be changed immediately.

The machine has an alarm which indicates when the water is dirty and must be changed. The alarm is triggered after a preset number of wash cycles. The LED (4) flashes to indicate that the alarm has been activated. The alarm can be reset by pressing button (8). The machine can also be locked to prevent it from being used any further when the water change alarm is triggered. The setting must be changed in the machine's software by a service engineer.

Recommendations

• Change the water if a large amount of foam forms.
• If a large number of items need washing before lunch and relatively few during the afternoon, change the water directly after the lunchtime wash.
• If a large number of items need to be washed after breakfast and after lunch, change the water twice, both after breakfast and after lunch.

Changing the water

• Before changing the water, you must run programme P4.
• When the doors are open, press button (7) to switch off the power supply.
• Remove the filters (14) and cover plates (13). Rinse these items in water.
• Turn the level pipe (18) a quarter of a turn to empty the tanks.
• If necessary, remove the level pipe and rinse the wash tank and the granulate with water. Refit the level pipe.
• Turn the level pipe back a quarter of a turn until the rubber seal (17) seals with the bottom plate.
• Refit the cover plates and the filter.
• Press button (7) and then (6) to close the doors and start filling the machine.
• Messages indicating the sequence of events appear on the display (1).

Emptying the tanks. Turning the level pipe a quarter of a turn.
4.3 After use – Cleaning

HACCP is a preventive inspection system to ensure hygiene requirements are met during the washing process and cleaning of the machine. As a result of its design, the machine meets strict hygiene requirements. Regular, thorough cleaning is also important from a hygiene perspective. Cleaning the machine carefully helps to ensure good washing results and reduces the risk of dirt accumulating inside the machine.

See the WEB Tool manual for the HACCP alarm options.

4.3.1 Incorrect cleaning methods

N.B.! An incorrect cleaning method may damage the machine. The following points must be observed:

- Do NOT use steel wool as it will cause corrosion to form on the machine.
- If detergent is used, it must not contain abrasives. Detergents containing abrasives will damage the stainless steel panels.
- The exterior of the machine must not be hosed. Water can enter the machine and damage the control panel and electrical equipment.
- Pressure washers and steam can damage the machine and must NOT be used for cleaning purposes. Never use a pressure washer to clean the floor within 1 metre of the machine. The supplier cannot be held liable for any faults caused by the use of pressure washers on the machine and any such use may invalidate the warranty. There is a risk of splashing even if the floor is hosed down.

Steel wool and pressure washers must not be used for cleaning
4.3.2 Daily cleaning

Internally

Preparations:

- Run the machine on programme P4.
- Remove the extension track between the loading bench and the machine for better access.
- Remove the filters (14) and cover plates (13). Rinse these items in water.
- Turn the level pipe (18) a quarter of a turn to empty the tanks.
- Take out and clean the level pipe once the tanks are empty.
- Rinse the granulate and the inside of the machine with hot water.
- Level monitors must be cleaned and the functioning of floats checked to ensure these move easily and freely. Level monitors must not come into direct contact with cleaning equipment and must be handled with care during cleaning.
- Check the nozzles on the wash arms. If they contain dirt, remove the wash arms and clean them.
- Store filters, cover plates and level pipes outside the machine until it is to be used next time.

Internal cleaning programme

N.B.! This setting cannot be used on front-feed machines.

- The machine must be in pause mode. No wash programme must be selected. Press the programme button with the lit LED (2) until the LED goes out.
- Press and hold the diagnostics button (10) for a few seconds until SET-POINTS - DIAGNOSTICS - RELAY TEST - STATISTICS appears on the display. Press button (10). The cursor moves between the different options. Hold button (10) down until TIME & DATE - LANGUAGE - OTHER appears on the display. Move the cursor to OTHER.
- Press button (9). MANUAL CLEANING NO YES appears on the display. Hold button (9) down until the cursor moves to YES.
- Press button (6). One door closes. Clean the inside of the closed door. Press button (6) again to open the clean door and close the other door.
- Clean the inside of the closed door. Open the door using button (6) and leave both doors open.
- Exit the diagnostics function by pressing and holding down button (10) until LED (3) goes out.
- Turn off the machine. Press button (7).
- Clean the outer surfaces of the machine.
- Rinse the tanks (15, 16) and the granulate in hot water.
Cleaning the wash nozzles and the wash arms:

 Undo the quick release lock (A). Take out the wash arms. Check and clean the wash nozzles (B).

• Take out the wash arms (12). Undo the quick release lock and pull the wash arms straight up. Rinse them inside and out. Check that the nozzles (21) are not blocked. Replace the wash arms.

Externally

Wipe the outside of the machine with a soft, damp cloth.

• If detergent is used, it must not contain abrasives. Detergents containing abrasives will damage the stainless steel panels.
• The exterior of the machine must not be hosed. Water can enter the machine and damage the control panel and electrical equipment.

If the machine has the option for raising and lowering it (option), the floor underneath the machine can be cleaned more easily. Make sure that no equipment is connected to the machine.

Raise the machine by pressing button (24) with the up arrow. Clean the floor under the machine and then lower the machine by pressing button (24) with the down arrow. During use, the machine must be set to the bottom position, which is its normal position.
Cleaning other equipment

- Clean the extension track (D) between the loading bench (B) and the machine.
- Remove and clean the roller cassettes (C) and filters (A) on the loading bench. Clean the bench and refit the filters (A) and roller cassettes (C).
- Clean trolley (E) and the cassette.

The rollers must not be washed in water hotter than 45°C.

Clean filter (A), loading bench (B), roller cassettes (C), extension track (D) and trolley (E).
4.3.3 Weekly cleaning or as required

Collecting the granulate

The granulate must be collected and cleaned once a week. This is done before the machine is emptied and turned off.

To collect the granulate, replace the filters with the connector plates (A) and the granulate collectors (B).

- Remove the filters (14).
- Put the granulate collectors (B) where the filters are normally located and the two connector plates (A) on each side of the collectors.
- Put the cassette in the machine and run programme P1.
- When the programme is finished, take out the cassette, remove the granulate collectors (B) and the two connector plates (A). Check that all the granulate has been collected.
- Check that the collectors contain the correct amount of granulate. Both collectors should contain around 10 litres of granulate between them. The granulate collectors must be filled to the brim. Add fresh granulate if necessary.
- Check that the machine contains the correct quantity of granulate after a specific number of wash cycles (alarm that may be set).
- Leave the granulate in the collectors overnight to air.
- Put it back in the granulate wash tank (15) the next day.
Operating instructions

Weekly cleaning of granulate (or as required)

The machine has an alarm which indicates when it is time to check the granulate level.

- The granulate must be collected.
- Place the containers in the sink and rinse the granulate using a hand shower.
- Remove any food residues.

The machine must also be cleaned in accordance with the instructions for daily cleaning.

Monthly cleaning of granulate (or as required)

- Collect the granulate and tip it into a bucket.
- Place the bucket containing the granulate in the sink. Take the hand shower and move it around in the granulate, rinsing the granulate carefully.

As the granulate is heavier than the food residues, the food residues will float to the surface and run off with the excess water. Follow the weekly cleaning instructions and allow the granulate to air properly overnight.

Annual disinfection of granulate (or as required)

- Collect and clean the granulate in accordance with the previous instructions.
- Empty the machine and clean it in the usual way.
- Press button (7) to switch off the power.
- Pour the granulate back into the machine.
- Clean the cover plates, filters and level pipe. Refit the components.

N.B.! Contact the service engineer or detergent supplier to shut off the detergent and drying agent dosing system.

- Start the machine and fill it with water in the usual way.
- Pour one litre of chlorine into the wash tank, then run programme P4.
- Run programme P1 with granulate three times followed by programme P4. Then empty the chlorinated water from the tanks.
- Refill the washing tank and run programme P1 once to rinse out the machine. The machine is now disinfected.

Contact the service engineer to switch the detergent and drying agent dosing system back on.
Checking the amount of granulate – Changing the granulate

The granulate will gradually start to wear and the washing results may be affected. In order to maintain good washing results, it is important that the machine always contains the correct quantity of granulate. Add fresh granulate if necessary. If the granulate is very worn, it should be replaced. The best time to do this is when the granulate is being collected as part of the normal cleaning process. This should be checked every week.

Different makes of granules differ in both size and weight. The machine is designed to use Wexiödisk original granules, and these should be used when filling with new granules. The amount to be added to the machine is indicated under “TECHNICAL DATA”.

Recycling the granules

Used granulate should not be disposed of with other waste. If the granulate is not contaminated, it can be recycled.

The granulate can also be discarded at an approved site or incinerated if this is permitted under local regulations.

The granulate should preferably be recycled rather than discarded or incinerated.

4.3.4 Periodic servicing

Long intervals between using the machine

If the machine is not being used for a long period, the granulate and the machine should be disinfected with chlorine. You can store the granulate in the freezer during this period.

If the machine is not being used for a long period, cooking oil should be sprayed into the pump housings. The oil will prevent rust from forming in the pump housing and jamming the impeller. The cooking oil is sprayed into the pumps’ inlet pipes. (This should be done by an authorised engineer.)

If the machine will not be used for a longer period, the power to the machine should be turned off using the power switch, the water supply turned off and the door should be left ajar.
### Error messages

Machine faults and user faults are indicated with messages on the display (1). The alarms indicated with a flashing LED (4) can be reset by pressing button (8) when the cause of the alarm has been rectified. Alarms that are indicated by the fact that the LED (4) is lit but not flashing cannot be reset by the operator.

The following alarms can be addressed by the operator. For other alarms, or if an alarm reset with button (8) recurs, authorised service personnel must be contacted.

<table>
<thead>
<tr>
<th>Alarm text</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0) PLATFORM ERROR</td>
<td>Switch off the machine and restart it.</td>
</tr>
<tr>
<td>(1) EMERGENCY STOP ACTIVATED. PRESS RESET</td>
<td>Reset the emergency stop by turning it in the direction of the arrows. Then reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(10) HACCP ALARM PUMP FUNCTIONALITY DEFECT. PRESS RESET</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(17) ROTATION ERROR ROTATING TABLE. PRESS RESET</td>
<td>First turn the machine off and then on, so that the doors open. You can also wait until the programme has finished. Only the table stops rotating. The wash programme does not stop. Check that none of the items being washed have jammed the roller table (19). Remove any items. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(25) DOOR SAFETY PROTECTION DEVICE ACTIVATED ON DIRTY SIDE</td>
<td>Check that nothing is preventing the doors from closing. Reset any alarm by pressing button (8).</td>
</tr>
<tr>
<td>(26) DOOR SAFETY PROTECTION DEVICE ACTIVATED ON CLEAN SIDE</td>
<td>Check that nothing is preventing the doors from closing. Reset any alarm by pressing button (8).</td>
</tr>
<tr>
<td>(27) TIMEOUT WHEN OPENING DOOR ON DIRTY SIDE. PRESS RESET</td>
<td>Check that no granulate has become lodged in the slide bars of the doors. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(28) TIMEOUT WHEN OPENING DOOR ON CLEAN SIDE. PRESS RESET</td>
<td>Check that no granulate has become lodged in the slide bars of the doors. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(29) TIMEOUT WHEN CLOSING DOOR ON DIRTY SIDE. PRESS RESET</td>
<td>Check that nothing is preventing the door from closing or that no granulate has become lodged in the slide bars of the doors. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(30) TIMEOUT WHEN CLOSING DOOR ON CLEAN SIDE. PRESS RESET</td>
<td>Check that nothing is preventing the door from closing or that no granulate has become lodged in the slide bars of the doors. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(37) LOW FLOW DURING FINAL RINSE. PRESS RESET</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(38) HACCP ALARM NO FLOW DURING FINAL RINSE. PRESS RESET</td>
<td>Check that the stopcocks on the incoming water supply are open. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(40) HACCP ALARM. FINAL RINSE DEFECT PRESS RESET</td>
<td>Check that the stopcocks on the incoming water supply are open. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>Alarm text</td>
<td>Action</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>(42) TIMEOUT WHEN FILLING TANK. PRESS RESET TO START FILLING AGAIN</td>
<td>Check that the stopcocks on the incoming water supply are open. Check that the level pipe (18) is closed and that the rubber seal (17) on the level pipe is sealing with the bottom plate. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(43) TIMEOUT WHEN HEATING TANK. PRESS RESET</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(44) LOW TEMPERATURE IN TANK. PRESS RESET</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(45) HACCP ALARM. HEATING OF TANK DEFECT. PRESS RESET</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(47) LOW TEMP. BEFORE FINAL RINSE EXTENDED CHEMICAL WASH</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(48) HACCP ALARM. HEATING OF BOILER DEFECT. PRESS RESET</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(50) WASHING DETERGENT ALARM ACTIVE CHECK DETERGENT DEVICE</td>
<td>Check and fill with new detergent. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(51) HACCP ALARM. WASHING DETERGENT FUNCTIONALITY DEFECT. PRESS RESET</td>
<td>Check and fill with new detergent. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(57) EXTERNAL ALARM ACTIVATED. PRESS RESET</td>
<td>Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(58) TIME TO CHANGE WATER IN TANK. PRESS RESET</td>
<td>Change the water. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(60) CHECK GRANULATE LEVEL. PRESS RESET</td>
<td>Collect the granulate in the granulate collectors and check the level. Reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(61) EMERGENCY STOP ACTIVATED. RESET AND PRESS RESET</td>
<td>Reset the emergency stop by turning it in the direction of the arrows. Then reset the alarm by pressing button (8).</td>
</tr>
<tr>
<td>(63) POWER SUPPLY FAILURE CHECK THE EMERGENCY SWITCH</td>
<td>Switch off the machine and restart it.</td>
</tr>
<tr>
<td>(66) SENSOR ERROR. CLEAN AND CHECK FUNCTION FOR LEVEL SENSORS</td>
<td>Reset the alarm by pressing button (8). Contact service personnel!</td>
</tr>
<tr>
<td>(68) HARDWARE ERROR. POWER ON FUNCTION DEFECT. CALL SERVICE</td>
<td>Switch off the machine and restart it. Contact service personnel if the error persists.</td>
</tr>
<tr>
<td>(100) NOMINAL VALUES STORED FROM UI</td>
<td>Reset the alarm by pressing button (8). Contact service personnel if the alarm recurs each time the machine is started.</td>
</tr>
<tr>
<td>(105) TIMEOUT WHEN FILLING BREAK TANK. PRESS RESET TO START FILLING AGAIN.</td>
<td>Option. Reset the alarm by pressing button (8). Contact service personnel if the error persists.</td>
</tr>
</tbody>
</table>
Troubleshooting

The following errors can be dealt with by the operator. If the problem persists, contact authorised service personnel.

<table>
<thead>
<tr>
<th>PROBLEMS</th>
<th>CAUSE</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>No indication on the control panel display when the control button is pressed.</td>
<td>The main switch is off.</td>
<td>Turn on the main switch.</td>
</tr>
<tr>
<td>The machine does not fill with water.</td>
<td>The shut-off cock on the incoming water supply is closed.</td>
<td>Open the tap.</td>
</tr>
<tr>
<td></td>
<td>The doors are open.</td>
<td>Close the doors.</td>
</tr>
<tr>
<td>The tanks overfill.</td>
<td>The level pipe is not in place.</td>
<td>Fit the level pipe.</td>
</tr>
<tr>
<td></td>
<td>The level pipe's rubber sleeve is not sealing against the bottom plate.</td>
<td>Check that the level pipe is closed. Change the rubber sleeve if it is damaged.</td>
</tr>
<tr>
<td>The machine does not start washing.</td>
<td>The doors are not closed.</td>
<td>Close the doors.</td>
</tr>
<tr>
<td>The display indicates that the anti-crushing mechanism has been triggered.</td>
<td>Object preventing one door from closing.</td>
<td>Remove the object.</td>
</tr>
<tr>
<td>Noise from the washing pump.</td>
<td>Low water level. Foam in the tank.</td>
<td>Check the level. Change the water.</td>
</tr>
<tr>
<td>The machine is not cleaning properly.</td>
<td>The rinsing and washing nozzles are clogged with dirt.</td>
<td>Check and clean the nozzles.</td>
</tr>
<tr>
<td></td>
<td>There is too little detergent.</td>
<td>Check that there is sufficient detergent in the machine.</td>
</tr>
<tr>
<td></td>
<td>The wrong wash programme.</td>
<td>Choose a wash programme with a longer washing time.</td>
</tr>
<tr>
<td></td>
<td>The water in the tanks is too dirty.</td>
<td>Change the water.</td>
</tr>
<tr>
<td></td>
<td>There is too little granulate in the tank.</td>
<td>Check the amount of granulate and add more if necessary.</td>
</tr>
<tr>
<td></td>
<td>The removable parts are incorrectly fitted.</td>
<td>Fit the parts correctly.</td>
</tr>
<tr>
<td>Granules are sticking to the washed items.</td>
<td>The rinse nozzles are blocked.</td>
<td>Clean the nozzles.</td>
</tr>
<tr>
<td></td>
<td>There is too much foam in the machine.</td>
<td>Check to see how clean the wash water is. Change the water if necessary.</td>
</tr>
<tr>
<td>The granules end up in the wrong tank.</td>
<td>There is too much foam in the machine.</td>
<td>Check to see how clean the wash water is. Change the water if necessary.</td>
</tr>
<tr>
<td></td>
<td>The wash water is too dirty.</td>
<td>Change the water.</td>
</tr>
<tr>
<td>The doors are sticking.</td>
<td>Very worn granulate.</td>
<td>Replace the granulate.</td>
</tr>
<tr>
<td></td>
<td>Detergent concentration too high.</td>
<td>Reduce the amount of detergent.</td>
</tr>
<tr>
<td></td>
<td>Granulate in the tracks for the doors.</td>
<td>Open and close the doors a few times.</td>
</tr>
<tr>
<td>Dishware does not dry.</td>
<td>The rinse nozzles are blocked.</td>
<td>Check and clean the nozzles.</td>
</tr>
</tbody>
</table>
Operating instructions

When you contact the service personnel, you will need to answer the following questions about the machine:

- Machine type and model
- Machine serial number and installation date
- Brief description of the fault/problem
- What happened/was being done immediately before the fault occurred
5. Technical specifications

The manufacturer reserves the right to make changes to the technical data.

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Granulate pump (kW)</td>
<td>2x2.2</td>
</tr>
<tr>
<td>Rinse pump (kW)</td>
<td>2.2</td>
</tr>
<tr>
<td>Rotating table motor (kW)</td>
<td>0.37</td>
</tr>
<tr>
<td>Drive motor, belt (kW)</td>
<td>2x0.09</td>
</tr>
<tr>
<td>Booster heater (kW)</td>
<td>9</td>
</tr>
<tr>
<td>Tank heater (kW)</td>
<td>12</td>
</tr>
<tr>
<td>Condensing fan (kW)</td>
<td>0.12</td>
</tr>
<tr>
<td>Condensing fan, capacity (m³/h)</td>
<td>300</td>
</tr>
<tr>
<td>Heat recovery, cooling surface (m²)</td>
<td>11</td>
</tr>
<tr>
<td>Tank volume (litres)</td>
<td>145</td>
</tr>
<tr>
<td>Weight, machine in operation (kg)</td>
<td>685</td>
</tr>
<tr>
<td>Granulate amount (litres)</td>
<td>10</td>
</tr>
<tr>
<td>Enclosure protection class (IP)</td>
<td>55</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAPACITY AND OPERATING DATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total washing time programme 1 (min.) *</td>
<td>5</td>
</tr>
<tr>
<td>Total washing time programme 2 (min.) *</td>
<td>8</td>
</tr>
<tr>
<td>Total washing time programme 3 (min.) *</td>
<td>10.3</td>
</tr>
<tr>
<td>Total washing time programme 4 (min.) *</td>
<td>2.3</td>
</tr>
<tr>
<td>Total washing time programme 5 (min.) *</td>
<td>3.8</td>
</tr>
<tr>
<td>Total washing time programme 6 (min.) *</td>
<td>6.8</td>
</tr>
<tr>
<td>Capacity (1/1-canteens/programme) (units) **</td>
<td>8</td>
</tr>
<tr>
<td>Capacity/hour, Pr1 (1/1-canteens) incl. handling **</td>
<td>90</td>
</tr>
<tr>
<td>Capacity/hour, Pr1 (1/2-canteens) incl. handling **</td>
<td>181</td>
</tr>
<tr>
<td>Water consumption, rinsing/programme (litres)</td>
<td>6</td>
</tr>
<tr>
<td>Max. steam consumption (kg/h) ***</td>
<td>30</td>
</tr>
<tr>
<td>Sound pressure level, LPA (dBA) Normal load / Heavily soiled loads ****</td>
<td>65/72</td>
</tr>
<tr>
<td>Sound power level LWA (dBA) Normal load / Heavily soiled loads ****</td>
<td>78/86</td>
</tr>
<tr>
<td>Max. surface temperature at a room temperature of 20°C (°C)</td>
<td>35</td>
</tr>
</tbody>
</table>

* Factory setting, the washing time can be adjusted. Different times for PPE version.

** Max. capacity depending on the depth of the canteens.

*** When the machine is steam-heated.

**** in accordance with EN 60 335-2-58, §ZAA.2.8 with instruments that satisfy class 1.
Measurements of the sound pressure level on site are performed in three places 20cm from the edges of the front at a height of 1.55m using a microphone. When measuring sound power level, create an imaginary measurement area consisting of five sides at a distance of 1 m from all edges of the machine.

**CONNECTION, ELECTRICALLY HEATED MACHINE**

<table>
<thead>
<tr>
<th>Total connected power (kW)</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main fuse 400-415 V 3N~ (A) *</td>
<td>35</td>
</tr>
<tr>
<td>Max. connection area 400-415 V 3N~ (L1-L3, N, PE) Cu (mm²)</td>
<td>35</td>
</tr>
<tr>
<td>Main fuse 230 V 3~ (A) *</td>
<td>63</td>
</tr>
<tr>
<td>Max. connection area 230 V 3~ (L1-L3, PE) Cu (mm²)</td>
<td>35</td>
</tr>
</tbody>
</table>

* Other connection voltages on request.

**CONNECTION, STEAM-HEATED MACHINE 50-250 kPa**

<table>
<thead>
<tr>
<th>Total connected power (kW)</th>
<th>4.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main fuse 400 V 3N~ (A) *</td>
<td>16</td>
</tr>
<tr>
<td>Max. connection area 400 V 3N~ (L1-L3, N, PE) Cu (mm²)</td>
<td>35</td>
</tr>
<tr>
<td>Steam connection (internal thread)</td>
<td>R1&quot;</td>
</tr>
<tr>
<td>Condensing water connection (internal thread)</td>
<td>R½&quot;</td>
</tr>
</tbody>
</table>

* Other connection voltages on request.

**WATER, DRAIN AND VENTILATION CONNECTIONS**

| Water quality, hardness (°dH)    | 2.7      |
| Hot water connection 50-65°C (internal thread) | R½"     |
| Cold water connection 5-12°C (internal thread) | R½"     |
| Drain connection, PP pipe (ø mm) | 50       |
| Water capacity, cold water, pressure (kPa) | 200      |
| Water capacity, cold water, flow (litres/minute) | 18       |
| Water capacity, hot water, min./max. pressure (kPa) | 100/600 |
| Floor drain, capacity (litres/sec.) | 3        |
| Ventilation of machine (m³/hour) | 900      |
| Heat load room, sensitive (kW)   | 1.8      |
| Heat load room, latent (kW)      | 0.9      |
| Heat load room, total (kW)       | 2.7      |

**SIZE AND WEIGHT FOR TRANSPORT**

<table>
<thead>
<tr>
<th>Size, L x B x H (mm) *</th>
<th>1220 x 1320 x 2300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg) *</td>
<td>555</td>
</tr>
</tbody>
</table>

* Including packaging.